

KIRTON CONCRETE SERVICES LTD

INDEPENDENT TESTING LABORATORY

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TEST RESULTS

Client :- TITAN CEMENT LTD. HULL
Report reference :- TITAN 57
Ship reference :- "9-18
Sample :- ORDINARY PORTLAND CEMENT
Sand :- FRENCH
Date received :- 08-Jan-19
Date of tests :- 08-Jan-19 to 05-Feb-19

All results are based on sample received from the client

DENSITY	3170 kg/m ³	(BSEN 196-6:2010 N.A.C. 5.3)
FINENESS	4270 cm ² /g	(BSEN 196-6:2010)
STANDARD CONSISTANCE	29.0 %	(BSEN 196-3:2016)
INITIAL SETTING TIME	212 mins	(BSEN 196-3:2016)
SOUNDNESS	2.0 mm	(BSEN 196-3:2016)

COMPRESSIVE STRENGTH:- mortar prisms (BSEN 196-1:2016)

AT 2 DAYS	31.1 Mpa	(Mean of 6 results, none discarded)
AT 7 DAYS	48.5 Mpa	(Mean of 6 results, none discarded)
AT 28 DAYS	67.5 Mpa	(Mean of 6 results, none discarded)

CHEMICAL COMPOSITION:- % by mass, as received

K ₂ O	0.59 %	(BSEN 196-2:2013)
Na ₂ O	0.16 %	(BSEN 196-2:2013)
Na ₂ O(eq)	0.55 %	(BSEN 196-2:2013)
Chloride	0.01 %	(BSEN 196-2:2013)

End of Report

Signed.....

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Date 06/02/2019

J.M. Burton Quality Manager

S. Burton Technical Manager